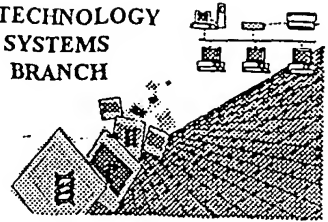# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: **10/644,052**

Source: **Dipe**

Date Processed by STIC: **8-25-03**

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
<u>http://www.uspto.gov/web/offices/pac/checker</u>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<u><http://www.uspto.gov/ebc/efs/downloads/documents.htm></u> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
        Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _10/644,052_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
        Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
        Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _X_ Variable Length

Sequence(s) _17_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
        "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
        (OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) ~~SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)~~
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences
        (NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
        (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10 _____ Invalid <213>
        Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
        "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

RAW SEQUENCE LISTING   DATE: 08/25/2003
PATENT APPLICATION: US/10/644,052   TIME: 14:09:43

Input Set : A:\C01037.70048.US seq.txt
Output Set: N:\CRF4\08252003\J644052.raw

```
   3 <110> APPLICANT: Krieg, Arthur M
   4        Samulowitz, Ulrike
   5        Vollmer, Joerg
   6        Uhlmann, Eugen
   7        Jurk, Marion
   8        Lipford, Grayson
   9        Rankin, Robert
  11 <120> TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID
  13 <130> FILE REFERENCE: C01037.70048.US
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/644,052
C--> 16 <141> CURRENT FILING DATE: 2003-08-19
  18 <150> PRIOR APPLICATION NUMBER: US 60/404,479
  19 <151> PRIOR FILING DATE: 2002-08-19
  21 <150> PRIOR APPLICATION NUMBER: US 60/447,377
  22 <151> PRIOR FILING DATE: 2003-02-14
  24 <150> PRIOR APPLICATION NUMBER: US 60/404,820
  25 <151> PRIOR FILING DATE: 2002-08-19
  27 <160> NUMBER OF SEQ ID NOS: 388
  29 <170> SOFTWARE: PatentIn version 3.2
  31 <210> SEQ ID NO: 1
  32 <211> LENGTH: 17
  33 <212> TYPE: DNA
  34 <213> ORGANISM: Artificial sequence
  36 <220> FEATURE:
  38 <223> OTHER INFORMATION: Oligodeoxynucleotide
  40 <400> SEQUENCE: 1
  41 acgtcgtttt cgtcgtt                                      17
  44 <210> SEQ ID NO: 2
  45 <211> LENGTH: 16
  46 <212> TYPE: DNA
  47 <213> ORGANISM: Artificial sequence
  49 <220> FEATURE:
  51 <223> OTHER INFORMATION: Oligodeoxynucleotide
  53 <400> SEQUENCE: 2
  54 gcgtcgacgt cgacgc                                       16
  57 <210> SEQ ID NO: 3
  58 <211> LENGTH: 16
  59 <212> TYPE: DNA
  60 <213> ORGANISM: Artificial sequence
  62 <220> FEATURE:
  64 <223> OTHER INFORMATION: Oligodeoxynucleotide
  66 <400> SEQUENCE: 3
  67 gcgtcgtttt cgtcgc                                       16
```

Does Not Comply
Corrected Diskette Needed

P. 4

RAW SEQUENCE LISTING   DATE: 08/25/2003
PATENT APPLICATION: US/10/644,052   TIME: 14:09:43

Input Set : A:\C01037.70048.US seq.txt
Output Set: N:\CRF4\08252003\J644052.raw

```
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 19
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial sequence
73 <220> FEATURE:
75 <223> OTHER INFORMATION: Oligodeoxynucleotide
77 <400> SEQUENCE: 4
78 tccatgacgt tcctgatgc                                    19
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 17
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial sequence
86 <220> FEATURE:
88 <223> OTHER INFORMATION: Oligodeoxynucleotide
90 <400> SEQUENCE: 5
91 tcgtcgtttt cgtcgtt                                      17
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 22
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial sequence
99 <220> FEATURE:
101 <223> OTHER INFORMATION: Oligodeoxynucleotide
103 <400> SEQUENCE: 6
104 tcgtcgtttt cggcggccgc cg                               22
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 17
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial sequence
112 <220> FEATURE:
114 <223> OTHER INFORMATION: Oligodeoxynucleotide
116 <400> SEQUENCE: 7
117 tcgtcgtttt cgtcgtt                                     17
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 16
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial sequence
125 <220> FEATURE:
127 <223> OTHER INFORMATION: Oligodeoxynucleotide
130 <400> SEQUENCE: 8
131 tcgtcgtttc gtcgtt                                      16
134 <210> SEQ ID NO: 9
135 <211> LENGTH: 17
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial sequence
139 <220> FEATURE:
141 <223> OTHER INFORMATION: Oligodeoxynucleotide
143 <400> SEQUENCE: 9
144 tcgtcgtttt cgtcgtt                                     17
147 <210> SEQ ID NO: 10
```

```
148 <211> LENGTH: 17
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial sequence
152 <220> FEATURE:
154 <223> OTHER INFORMATION: Oligodeoxynucleotide
156 <400> SEQUENCE: 10
157 tcgtcgtttt cgtcgtt                                           17
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 17
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial sequence
165 <220> FEATURE:
167 <223> OTHER INFORMATION: Oligodeoxynucleotide
169 <400> SEQUENCE: 11
170 tcgtcgtttt cgtcgtt                                           17
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 24
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial sequence
178 <220> FEATURE:
180 <223> OTHER INFORMATION: Oligodeoxynucleotide
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: (3)..(3)
186 <223> OTHER INFORMATION: dezaguanine
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (6)..(6)
191 <223> OTHER INFORMATION: dezaguanine
```
W--> 192 <400> SEQUENCE: 12
W--> 193 tcntcntttt gtcgttttgt cgtt   24
```
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 24
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial sequence
201 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligodeoxynucleotide
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (3)..(3)
209 <223> OTHER INFORMATION: dezaguanine
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (22)..(22)
214 <223> OTHER INFORMATION: dezaguanine
216 <400> SEQUENCE: 13
```
W--> 217 tcntcgtttt gtcgttttgt cntt   24
```
220 <210> SEQ ID NO: 14
221 <211> LENGTH: 22
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RAW SEQUENCE LISTING   DATE: 08/25/2003
PATENT APPLICATION: US/10/644,052   TIME: 14:09:43

Input Set : **A:\C01037.70048.US seq.txt**
Output Set: **N:\CRF4\08252003\J644052.raw**

```
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial sequence
225 <220> FEATURE:
227 <223> OTHER INFORMATION: Oligodeoxynucleotide
229 <400> SEQUENCE: 14
230 tcgccgtttt cggcggccgc cg                                    22
233 <210> SEQ ID NO: 15
234 <211> LENGTH: 21
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial sequence
238 <220> FEATURE:
240 <223> OTHER INFORMATION: Oligodeoxynucleotide
242 <400> SEQUENCE: 15
243 tcgtcgtttt acgacgtcgc g                                     21
246 <210> SEQ ID NO: 16
247 <211> LENGTH: 21
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial sequence
251 <220> FEATURE:
253 <223> OTHER INFORMATION: Oligodeoxynucleotide
```
W--> **254 <400> SEQUENCE: 16**
```
255 tcgtcgtttt acgacgtcgt g                                     21
258 <210> SEQ ID NO: 17
259 <211> LENGTH: 24
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial sequence
263 <220> FEATURE:
265 <223> OTHER INFORMATION: Oligodeoxynucleotide
267 <400> SEQUENCE: 17
268 tcgtcgtttt acggcgccgc gccg                                  24
271 <210> SEQ ID NO: 18
272 <211> LENGTH: 16
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial sequence
276 <220> FEATURE:
278 <223> OTHER INFORMATION: Oligodeoxynucleotide
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (1)..(1)
283 <223> OTHER INFORMATION: N is a, c, g, or t with a phosphorothioate link, 3-10
nucleotides
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (2)..(2)
288 <223> OTHER INFORMATION: N is a, c, g, or t, 0-20 nucleotides
290 <220> FEATURE:
291 <221> NAME/KEY: misc_feature
292 <222> LOCATION: (15)..(15)
293 <223> OTHER INFORMATION: N is a, c, g, or t, 0-20 nucleotides
295 <220> FEATURE:
```

[handwritten annotation: See item 5 on error summary report.]

RAW SEQUENCE LISTING   DATE: 08/25/2003
PATENT APPLICATION: US/10/644,052   TIME: 14:09:43

Input Set : A:\C01037.70048.US seq.txt
Output Set: N:\CRF4\08252003\J644052.raw

```
       296 <221> NAME/KEY: misc_feature
       297 <222> LOCATION: (16)..(16)
       298 <223> OTHER INFORMATION: N is a, c, g, or t with a phosphorothioate link, 3-10
nucleotides
       300 <400> SEQUENCE: 18
W--> 301 nngtcgttgt cgttnn                                              16
       304 <210> SEQ ID NO: 19
       305 <211> LENGTH: 28
       306 <212> TYPE: DNA
       307 <213> ORGANISM: Artificial sequence
       309 <220> FEATURE:
       311 <223> OTHER INFORMATION: Oligodeoxynucleotide
       313 <220> FEATURE:
       314 <221> NAME/KEY: misc_feature
       315 <222> LOCATION: (1)..(1)
       316 <223> OTHER INFORMATION: N is a, c, g, or t, with a phosphorothioate link, 3-10
       317       nucleotides
       319 <220> FEATURE:
       320 <221> NAME/KEY: misc_feature
       321 <222> LOCATION: (2)..(2)
       322 <223> OTHER INFORMATION: N is a, c, g, or t, 0-20 nucleotides
       324 <220> FEATURE:
       325 <221> NAME/KEY: misc_feature
       326 <222> LOCATION: (27)..(27)
       327 <223> OTHER INFORMATION: N is a, c, g, or t, 0-20 nucleotides
       329 <220> FEATURE:
       330 <221> NAME/KEY: misc_feature
       331 <222> LOCATION: (28)..(28)
       332 <223> OTHER INFORMATION: N is a, c, g, or t, with a phosphorothioate link, 3-10
       333       nucleotides
       335 <400> SEQUENCE: 19
W--> 336 nngtcgttgt cgttgtcgtt gtcgttnn                                 28
       339 <210> SEQ ID NO: 20
       340 <211> LENGTH: 34
       341 <212> TYPE: DNA
       342 <213> ORGANISM: Artificial sequence
       344 <220> FEATURE:
       346 <223> OTHER INFORMATION: Oligodeoxynucleotide
       348 <220> FEATURE:
       349 <221> NAME/KEY: misc_feature
       350 <222> LOCATION: (1)..(1)
       351 <223> OTHER INFORMATION: N is a, c, g, or t, with a phosphorothioate link, 3-10
       352       nucleotides
       354 <220> FEATURE:
       355 <221> NAME/KEY: misc_feature
       356 <222> LOCATION: (2)..(2)
       357 <223> OTHER INFORMATION: N is a, c, g, or t, 0-20 nucleotides
       359 <220> FEATURE:
       360 <221> NAME/KEY: misc_feature
       361 <222> LOCATION: (33)..(33)
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/25/2003
PATENT APPLICATION: **US/10/644,052**   TIME: 14:09:44

Input Set : **A:\C01037.70048.US seq.txt**
Output Set: **N:\CRF4\08252003\J644052.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:12; N Pos. 3,6
Seq#:13; N Pos. 3,22
Seq#:18; N Pos. 1,2,15,16
Seq#:19; N Pos. 1,2,27,28
Seq#:20; N Pos. 1,2,33,34
Seq#:28; N Pos. 6,19
Seq#:51; N Pos. 11,14
Seq#:57; N Pos. 1,2,39,40
Seq#:58; N Pos. 19,22
Seq#:60; N Pos. 10
Seq#:61; N Pos. 10
Seq#:66; N Pos. 7,8,9,15,16,17,18
Seq#:74; N Pos. 4,18,20
Seq#:272; N Pos. 10
Seq#:273; N Pos. 10
Seq#:274; N Pos. 10
Seq#:277; N Pos. 4,18,20
Seq#:278; N Pos. 4,18,20
Seq#:279; N Pos. 7,8,9,15,16,17,18
Seq#:280; N Pos. 7,8,9,15,16,17,18
Seq#:296; N Pos. 13,16
Seq#:301; N Pos. 7,14,17
Seq#:302; N Pos. 6,13,16
Seq#:303; N Pos. 6,13,16
Seq#:306; N Pos. 7,8,9,12,15,16,17,20
Seq#:307; N Pos. 7,8,9,12,15,16,17,20
Seq#:308; N Pos. 12,20
Seq#:309; N Pos. 7,8,9,15,16,17
Seq#:311; N Pos. 4,7,8,11
Seq#:312; N Pos. 4,7,8,11,12,15
Seq#:315; N Pos. 6,13
Seq#:318; N Pos. 4,5,8,9,14
Seq#:331; N Pos. 4,5,8,9,14
Seq#:332; N Pos. 6,13
Seq#:378; N Pos. 1,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:379; N Pos. 1,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:380; N Pos. 1,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:381; N Pos. 1,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:382; N Pos. 1,8,9,10,11,12
Seq#:383; N Pos. 1,8,9,10,11,12
Seq#:384; N Pos. 1,10,11,12
Seq#:385; N Pos. 1,10,11,12
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/644,052**

DATE: 08/25/2003
TIME: 14:09:44

Input Set : **A:\C01037.70048.US seq.txt**
Output Set: **N:\CRF4\08252003\J644052.raw**

```
L:15 M:270 C: Current Application Number differs, Replaced Current Application Number
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:192 M:283 W: Missing Blank Line separator, <400> field identifier
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:254 M:283 W: Missing Blank Line separator, <400> field identifier
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:378 M:283 W: Missing Blank Line separator, <220> field identifier
L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:750 M:283 W: Missing Blank Line separator, <220> field identifier
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:812 M:283 W: Missing Blank Line separator, <220> field identifier
L:874 M:283 W: Missing Blank Line separator, <220> field identifier
L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:998 M:283 W: Missing Blank Line separator, <220> field identifier
L:1040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1060 M:283 W: Missing Blank Line separator, <220> field identifier
L:1158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1308 M:283 W: Missing Blank Line separator, <220> field identifier
L:1618 M:283 W: Missing Blank Line separator, <220> field identifier
L:1928 M:283 W: Missing Blank Line separator, <220> field identifier
L:2238 M:283 W: Missing Blank Line separator, <220> field identifier
L:2548 M:283 W: Missing Blank Line separator, <220> field identifier
L:2858 M:283 W: Missing Blank Line separator, <220> field identifier
L:3168 M:283 W: Missing Blank Line separator, <220> field identifier
L:3478 M:283 W: Missing Blank Line separator, <220> field identifier
L:3723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:272 after pos.:0
L:3742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273 after pos.:0
L:3761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:0
L:3813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:277 after pos.:0
L:3842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278 after pos.:0
L:3865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:0
L:3888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:0
L:3912 M:283 W: Missing Blank Line separator, <400> field identifier
L:4036 M:283 W: Missing Blank Line separator, <220> field identifier
L:4104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:0
L:4185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301 after pos.:0
L:4213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:0
L:4240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303 after pos.:0
L:4300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306 after pos.:0
L:4333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307 after pos.:0
L:4357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:308 after pos.:0
L:4380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309 after pos.:0
```

VERIFICATION SUMMARY   DATE: 08/25/2003
PATENT APPLICATION: **US/10/644,052**   TIME: 14:09:44

Input Set : **A:\C01037.70048.US seq.txt**
Output Set: **N:\CRF4\08252003\J644052.raw**

```
L:4421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311 after pos.:0
L:4454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:0
L:4503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315 after pos.:0
L:4557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:0
L:4594 M:283 W: Missing Blank Line separator, <400> field identifier
L:4718 M:283 W: Missing Blank Line separator, <220> field identifier
L:4738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331 after pos.:0
L:4761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:332 after pos.:0
L:4780 M:283 W: Missing Blank Line separator, <220> field identifier
L:5090 M:283 W: Missing Blank Line separator, <220> field identifier
L:5362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:378 after pos.:0
L:5385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:379 after pos.:0
L:5408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:380 after pos.:0
L:5431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:381 after pos.:0
L:5454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382 after pos.:0
L:5477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:383 after pos.:0
L:5500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:384 after pos.:0
L:5523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:385 after pos.:0
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